

ASCE

1968

COMBINED INDEX



1969/1

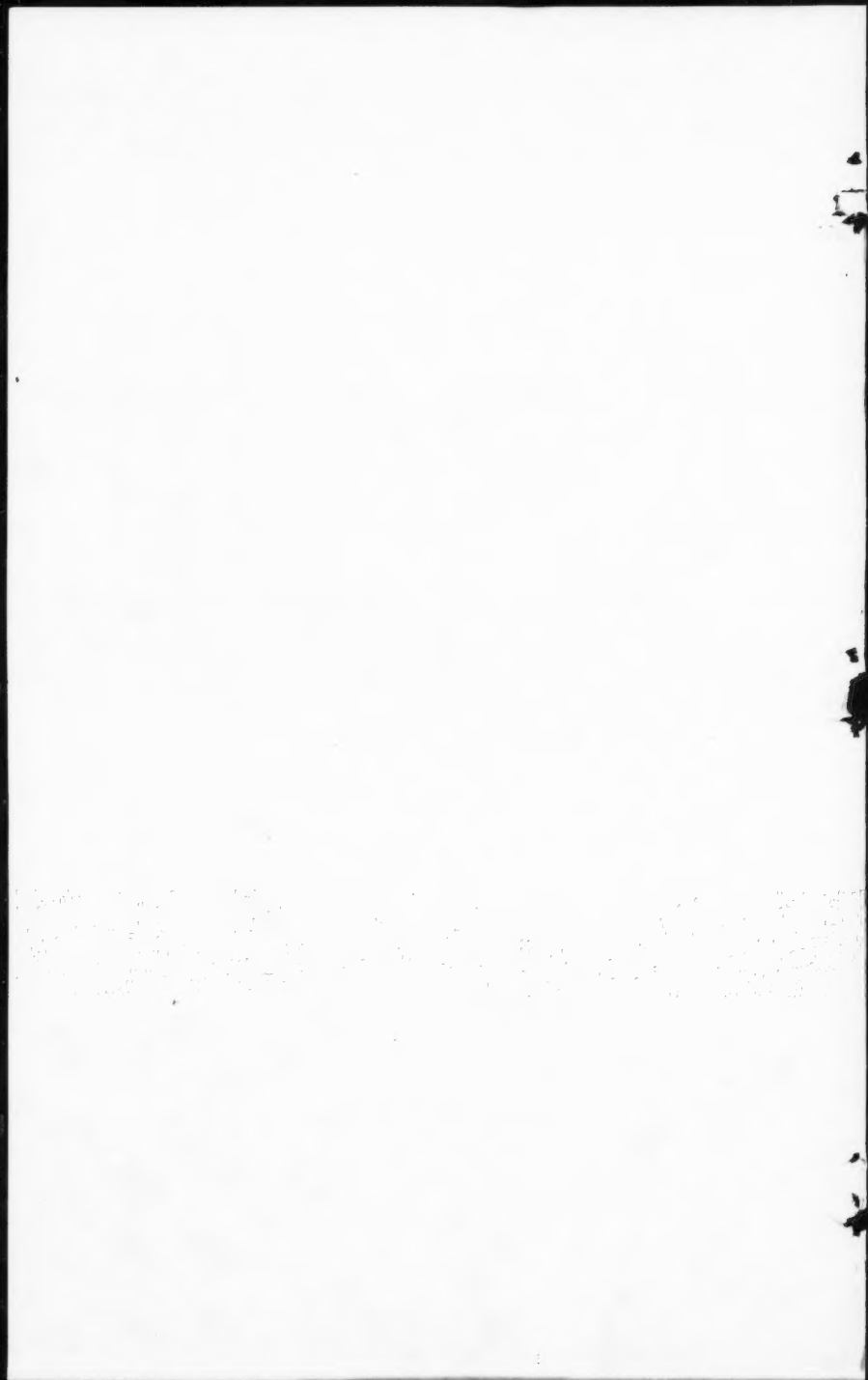
ASCE 1968

COMBINED INDEX



*Journals (Proceedings)
Civil Engineering
and
Transactions*

January, 1969/\$2.00



INDEX TO 1968 ASCE PERIODICAL PUBLICATIONS

FOREWORD

The 1968 Index, which provides a guide to information published by ASCE during 1968, combines material appearing in the Journals (Proceedings Vol. 94), CIVIL ENGINEERING (Vol. 38), and Transactions (Vol. 133).

The user will find all articles and papers dealing with specific subject areas listed under one or more appropriate subject headings suggested by the content and application of the paper. The Engineers Joint Council "Thesaurus of Engineering Terms" has been used as the primary source of index terms. Additional terms not presently in the Thesaurus have been used when necessary.

The Index can be used in conjunction with the information-retrieval cards printed in the front of each journal. The underlined key words on the information-retrieval abstracts are the words used as index terms in the 1968 Index.

The name index contains entries indexed under the names of authors, co-authors, discussers, chairmen of committees preparing reports, and deceased members whose memoirs appeared in Transactions.

In the name index, the entry for a Proceedings Paper (under the first named if more than one author) is supplemented by information concerning the discussion, closure, and Transactions Digest, if applicable. To find what discussion, if any, there has been for Proceedings Papers located in the subject index, the reader looks under the entry for the first-named author in the name index. When discussion of a paper from a prior year is published, the original entry is repeated. Discussion over a period of time can be traced until the closure to the paper is located.

Discussions of CIVIL ENGINEERING items are noted in the subject index as well as in the name index under the discussor's name.

When the paper appears in Transactions, the complete entry including original paper, discussion, closure, and errata, if applicable, and Transactions citation appears in the name index. The subject entry contains a citation to the original paper and the Transactions reference.

Typical abbreviations used herein are:

Dsc for discussion,
Clo for closing discussion,
Corr for corrections,
Chmn for Chairman of a committee submitting a report, and
TR for Transactions.

Division Abbreviations: Aero-Space Transport (AT), Construction (CO), Engineering Mechanics (EM), Highway (HW), Hydraulics (HY), Irrigation and Drainage (IR), Pipeline (PL), Power (PO), Sanitary Engineering (SA), Soil Mechanics and Foundations (SM), Structural (ST), Surveying and Mapping (SU), Urban Planning and Development (UP), and Waterways and Harbors (WW). Papers sponsored by the Department of Professional Activities are identified by the symbols (PP).

The original publication can be found from the index entry as follows: Papers appearing in the Journals (Proceedings) are listed as:

SM5: Sept 67:233:5460

which would indicate a paper published in the Journal of the Soil Mechanics and Foundation Division, Sept. 1967, on page 233, as Proceedings Paper 5460.

The Transactions entry

TR:133:488

indicates that the Digest appears in Transactions, Volume 133, on page 488.

Articles and news items published in CIVIL ENGINEERING are represented as:

CE: Aug 68:50

which states that the article appeared in CIVIL ENGINEERING in the August, 1968 issue on page 50.

In addition to articles, the following Departments of CIVIL ENGINEERING are indexed: ASCE News, Engineers Notebook, News Briefs, The Readers Write, and The Younger Viewpoint.

Items indexed from Vol. 94 (1968) of the Journals are identified by months. The number of Journals published by a Division in 1968 can be obtained from the number after the Division abbreviation, i.e., SM6 November, 1968 identifies the sixth issue of the Journal of the Soil

Mechanics and Foundation Division. The complete list of paper numbers and Journals is as follows:

<i>Month</i>	<i>Paper Numbers</i>	<i>Journals</i>
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February	5770-5824	EM1, SA1, ST2, WW1
March	5825-5874	HY2, IR1, SM2, ST3
April	5875-5919	EM2, SA2, ST4
May	5920-5960	HY3, PO1, SM3, ST5, WW2
June	5961-6011	EM3, HW1, IR2, PP1, SA3, ST6
July	6012-6048	HY4, SM4, ST7
August	6049-6086	EM4, SA4, ST8, UP1, WW3
September	6087-6128	HY5, IR3, SM5, ST9, SU2
October	6129-6197	CO2, EM5, PL1, SA5, ST10
November	6198-6259	AT1, HW2, HY6, PO2, SM6, ST11, WW4
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Trace Metal Accumulation by Estuarine Mollusks, Benjamin H. Pringle, Dale E. Hissong, Edward L. Katz, and Stefan T. Mulawka, SA3:June 68:455:5970

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Nominal Diameter of Floc Related to Oxygen Transfer, James A. Mueller, Karl G. Voelkel, and William C. Boyle, SA2:Apr 68:9:4756

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Problems of Toxicity Measurements in Activated Sludge, Ludwig Hartmann and Gerhard Laubenberger, SA2:Apr 68:247:5894

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Gust Loading Factors, Alan G. Davenport, ST3:June 67:11:5255

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Similitude Problems in Building Aerodynamics, Hans J. Leutheusser and W. Douglas Baines, HY3:May 67:35:5226

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Bayesian Approach to Forecasting Loss of Airline Service, Arthur E. Tiemann, AT2:Nov 66:59:4964

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Get Me to the Airport on Time, Roger H. Gilman, CE:July 67:31

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An all-electric city would eliminate pollution, CE:July 68:72

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- ASCE Power Division Specialty Conference, Pullman, Wash., Sept. 11-13, discussed research needs in power, CE:Dec 68:47
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- Professional sessions draw more attendees, CE:Apr 68:93
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- ASCE forms Construction Research Council, CE:Aug 68:90
- Column Research Council activities, CE: Jan 68:78
- Research Council on Performance of Full-Scale Structures plans 3 projects, CE:Feb 68:82

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- H.A.R. Austin dies, CE:June 68:73
- Honorary Member Guy F. Atkinson dies, CE:Nov 68:65
- Honorary Member Samuel Greeley dies, CE: Mar 68:66
- Six become Honorary Members at Pittsburgh Meeting, CE:Oct 68:68

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- Special enrollment period, CE:Feb 68:81

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- Associate Member Forum of Los Angeles Section studies technician Problem, CE:Mar 68:81
- Cleveland section active in career guidance work, CE:May 68:67
- District 9 holds annual meeting in Cleveland, CE:Dec 68:83
- Gavel changes hands in the Metropolitan Section, CE:Nov 68:66
- Indiana Section Branch to sponsor workshops on computers and steel building, CE:Aug 68:92
- Iowa sections co-sponsor Sixth Annual Water Resources Design-Conference, Iowa State University, Jan. 23-25, CE:Mar 68:82
- Local Section report on backfilling, CE:Oct 68:81
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- Manhattan STOL port "a necessity", CE:Dec 68:78
- Metropolitan and Philadelphia Sections plan seminar on planning and urban development, Rutgers Univ., Jan. 18-20, CE:Jan 68:78
- Metropolitan section award goes to Ronald A. Antonino, CE:June 68:79
- Metropolitan Section offers seminar on Rock Mechanics in Civil Engineering Practice, CE: Mar 68:78
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- San Francisco Section sponsors program for training minority groups, CE:May 68:71
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- Rockefeller Public Service Award to D.A. Williams, CE:Jan 68:79

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ASCE's Future Is Our Business, Richard H. Tatlow, III, CE:June 68:62

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The Critical Path of ASCE (Inaugural Address), Richard H. Tatlow III, CE:Nov 67:35
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Thomas M. Niles nominated ASCE President-Elect, CE:June 68:73

(ASCE) Professional Activities

ASCE plans cooperation with engineering technicians, CE:Aug 68:86

The Critical Path of ASCE (Inaugural Address), Richard H. Tatlow III, CE:Nov 67:35
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Federal Employee-Management Cooperation: E.O. 10988, Leonard T. Crook, PP1:May 66:18:4819

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Inter-American Program: Past, Present, and Future, Frederick J. McGarry and Charles L. Miller, PP2:Dec 66:7:5038

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Professional Training of Engineers, PP2:Dec 66:23:5043

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What Does a Member Get Out of ASCE?, William H. Wisely, CE:June 67:33

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Worlds of Two Giants, Paul M. Wright, PP2:Dec 66:1:4997
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(ASCE) Professional Objectives

The Civil Engineer, ASCE and Community Affairs, Theodore J. George, CE:Mar 68:76

(ASCE) Publications

"Civil Engineering" 1967 survey results, CE:
June 68:80

PAC publications to involve Local Sections, CE:Oct 68:78

Revised ASCE manual lists hydraulic translations, CE:Aug 68:90

Transportation Engineering Journal to begin February 1969, CE:Sept 68:51

(ASCE) Research

ASCE Research Fund first grant award to Dr. Charles R. O'Melia, CE:July 68:63

ASCE research program in urban water resources, CE:May 68:70

Progress Report--ASCE Combined Sewer Separation Project, M.B. McPherson, CE:Dec 67:60

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(ASCE) Scholarships & Fellowships

ASCE 1968 Student Chapter Scholarships awarded, CE:Sept 68:75

Bakhmeteff Research Fellowship offered for 1969-70, CE:Sept 68:80

John J. Baumgartner wins Ammann Research Fellowships, CE:Sept 68:72

(ASCE) Service to Members

Data-processing system to handle membership records, CE:Feb 68:82

What Does a Member Get Out of ASCE? William H. Wisely, CE:June 67:33

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(ASCE) Staff

ASCE Technical Publications Staff Adds two editors--Robert D. Walker & Richard R. Torrens, CE:Feb 68:61

C.E. Lent, Jr., moves to Florida Engineering Society, CE:Dec 68:79

Hal W. Hunt retires as editor of "Civil Engineering," CE:June 68:74

Kneeland A. Godfrey, Jr. becomes editor of "Civil Engineering," CE:July 68:44

Two new editors for Technical Publications Staff, Irving Amron and Richard E. Luna, CE:May 68:50

William D. French becomes Executive Assistant to the Secretary, CE:Apr 68:93

(ASCE) Student Chapters

ASCE commends outstanding Student Chapters, CE:Sept 68:72

New England Chapter sponsors symposium on interurban travel, CE:Sept 68:72

(ASCE) Technical Divisions

Aero-Space Transport Division sponsors second space-age conference, Los Angeles, April 24-26, CE:Mar 68:65

ASCE and AIME to co-sponsor tunneling conference, Univ. of Minnesota, May 15-17, CE:Apr 68:71

ASCE co-sponsors with AIME specialty conference on tunneling and shaft sinking, CE:Aug 68:85

(ASCE) Technical Divisions Continued

ASCE Hydraulics Div. conference Aug. 21-23, M.I.T., CE:May 68:48

ASCE Hydraulics Division's 16th Annual Specialty Conference, Cambridge, Mass., August 21-23, 1968, CE:July 68:44

ASCE Irrigation & Drainage Div. co-sponsor Symposium on Seepage, Phoenix, March 25-26, CE:Feb 68:76

ASCE Pipeline Div. co-sponsor of International Symposium on Two-Phase Flow in Pipes, Philadelphia, Mar 4-6, CE:Feb 68:81

ASCE Pipeline Division-PLCA Specialty Conference, Houston, Tex., Nov. 7, CE:Sept 68:74

"Civil Engineering in the Ocean," Conference, San Francisco, Sept. 6-8, CE:Mar 67:87; program, CE:July 67:64; proceedings available, CE:Apr 68:93

Engineering-Mechanics and Structural Divisions sponsor conference "Optimization and Non-linear Problems, Chicago, April 18-20, CE:Feb 68:82

Hydraulics and Sanitary Engineering Divisions cosponsor research conference on reservoir effects, Jan. 21-24, Portland, Oreg., CE:Mar 68:66

Irrigation and Drainage Division plans conference, CE:Sept 68:73

Sanitary Engineering Div. co-sponsors national symposium on estuarine pollution, Stanford Univ., Aug. 23-25, CE:Jan 67:86; CE:Apr 67:54; report, CE:Oct 67:84; proceedings available, CE:May 68:68

Space Facilities Conference, April 24-26, Los Angeles, CE:June 68:76

Symposium on earth materials, Univ. of New Mexico, Aug. 23-25, CE:Mar 67:89; CE:July 67:66; report, CE:Oct 67:85; proceedings available, CE:Jan 68:75

Transportation Engineering Journal to begin February 1969, CE:Sept 68:51

(ASCE) Technical Publications

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Dsc, W.G. Mitchell, CE:Oct 67:65
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(ASCE) Voluntary Fund

The ASCE Voluntary Fund, William H. Wisely, CE:Dec 68:27

(ASCE) Younger Members

Associate Member Forum of Los Angeles Section studies technician Problem, CE:Mar 68:81

How to Publish and Perish, Robert L. Alexander, CE:June 67:77

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The Younger Member--1968 (Younger Viewpoint) Robert H. Stewart, CE:May 68:73

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Brazilian Link In Pan American Highway, Allan F. Lubina, CE:Oct 68:56

Kneading Compaction of Asphalt Beam Specimens, H. Hong, HW2:Nov 68:179:6231

Membrane Linings for Canal Construction, M.E. Hickey and B.V. Jones, CE:Apr 68:51

San Mateo-Hayward Bridge Paved With Epoxy

Asphalt, Ben Balala, CE:Apr 68:59

Upgrading Intersections for Safety, Ralph Meller, CE:Jan 68:40

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Huge radio telescope dedicated at Caltech, CE:Dec 68:87

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Atlanta to expand its airport, CE:Nov 68:76

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Characteristics of Open Tube Wave Attenuation System, Efsthios L. Bourdinos and Arthur T. Ippen, WW4:Nov 68:465:6234

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Madison Square Garden--Fabrication and Erection of Cable-Supported Roof, J.A. Sterner, CE:Oct 67:43

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Madison, Wis., Coliseum Pays out Quickly, CE:July 68:32

Dsc: Russell S. Fling, CE:Oct 68:62

Oakland Coliseum Features Cable Supported Roof, CE:Jan 67:54

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602-ft-High Lightweight Concrete Building in Australia, J. Stigter, CE:Nov 68:23

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Automated Optimum Cost Building Design, Louis A. Hill, Jr., ST6:Dec 66:247:5013

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Automatic detection of stopped vehicles, CE:Feb 68:87

Computer Controls for Aqueduct Operation, Alfred R. Golze, PL1:Oct 68:19:6145

Computers and Engineers (Younger Viewpoint) Bill Johnson, CE:Mar 68:84

Houston Airport to use automatic train, CE:Jan 68:85

Optimizing Conveyance Systems for Water Transmission, David R. Miller and James P. Miller, CE:July 68:38

Dsc: Edward J. Low, CE:Nov 68:58

Water Line Transmission of Control Information, Roy E. Ramseier, SA6:Dec 68:1213:6314

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AISC honors beautiful steel-framed buildings, CE:Sept 68:84

Ardrossan Bridge Employs Precast Prestressed Components, CE:Feb 68:48

Chester P. Siess, 1968 Howard Award winner reinstated in research, CE:Dec 68:80

Daniel W. Mean prizes awarded, CE:Nov 68:63

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 John Fritz Medal goes to petroleum engineer, CE:Aug 68:53
 Lincoln Foundation 1968 award program for arcwelded design, CE:Mar 68:97
 PCI awards program honors ten projects, CE:Aug 68:100
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 Six projects nominated for 1968 OCEA Award, CE:Feb 68:58
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 U.S. Pavilion at Expo '67 receives award, CE:Dec 68:91
 Washington Award goes to James B. Fisk, CE:Mar 68:67

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- Characteristics of M1 Backwater Curves, Nagar S. Lakshmana Rao and K. Sridharan, HY6: Nov 68:131:4985
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 Improved Method of Flood Routing, Eugene A. Graves, HY1:Jan 67:29:5054
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- Hurricane protection planned for Lake Pontchartrain, CE:Mar 68:99
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- Complementary Energy Method for Buckling, Cenap Oran, EM1:Feb 67:57:5116
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 Lateral Vibrations of Plane Curved Bars, Muppidi N. Reddy, ST10:Oct 68:2197:6148

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- Abstracts of Papers, Tenth Conference on Coastal Engineering, Coastal Engineering Research Council, Waterways and Harbors Division, ASCE, M.P. O'Brien, Chmn., WW4: Nov 67:57:5570
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 By-Passing and Back-Passing with Reference to Florida, Per M. Bruun, WW2:May 67:101: 5243
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 Analysis of Beams and Plates for Ponding Loads, Ahmed E. Salama and Martin L. Moody, ST1:Feb 67:109:5093
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 Analysis of Box Girders with Diaphragms, Sana R. Abdel-Samad, Richard N. Wright, and Arthur R. Robinson, ST10:Oct 68:2231:6153
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 Beam on Tensionless Foundation, N. C. Tsai and Russell A. Westmann, EM5:Oct 67:1:5495
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 Beam Tests with Unreinforced Web Openings, John O. McCutcheon, ST1:Jan 68:1:5706
 BEF Analogy for Analysis of Box Girders, Richard N. Wright, Sana R. Abdel-Samad, and Arthur R. Robinson, ST7:July 68:1719:6025
 Behavior of Splices in Beam-Column Connections, Joseph P. Colaco and Chester P. Siess, ST5:Oct 67:175:5500
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 Bending Behavior of Composite Hybrid Beams, Charles G. Schilling, ST8:Aug 68:1945:6071
 Buckling Analysis of One-Story Frames, Alfred Zweig, ST9:Sept 68:2107:6118
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 Columns and Beams Braced by Diaphragms, Samuel J. Errera, George Pincus, and Gordon P. Fisher, ST1:Feb 67:295:5103
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 Commentary on Welded Cover-Plated Beams, Report of the Subcommittee on Cover Plates, Task Committee on Flexural Members, Structural Division, ASCE, John W. Fisher, Chmn., ST4:Aug 67:95:5383
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Creep of a Cracked Reinforced Beam, Jerome L. Sackman and Robert E. Nickell, ST1:Jan 68: 283:5764

Deflection Coefficients for Steel Beams, C.P. Dave, CE:Oct 68:63

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Design of Beams with Web Openings, John E. Bower, ST3:Mar 68:783:5869

Design of Foundations Under Differential Settling, Zvi Getzler, ST1:Jan 68:53:5712

Design of Hybrid Steel Beams, Report of Subcommittee 1 on Hybrid Beams and Girders, Joint ASCE-AAHSO Committee on Flexural Members, Structural Division, ASCE, C.G. Schilling, Chmn., ST6:June 68:1397:5995

Development and Use of Prestressed Steel Flexural Members, Report by Subcommittee 3 on Prestressed Steel of Joint ASCE-AAHSO Committee on Steel Flexural Members, C.E. Eckberg, Jr., Chmn., Journal of the Structural Division, ASCE, ST9:Sept 68:2033: 6112

Diagonal Cracking in Prestressed Concrete Beams, Jitendra N. Kar, ST1:Jan 68:83:5713

Direct Analysis of Continuous Beam-Columns, John Dundurs, Seng-Lip Lee, and Peter A. Hampe, ST3:June 67:1:5254

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Dynamic Influence Lines of Beams and Frames, Fernando Venancio Filho, ST2:Apr 66:371:4797

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Economy, Efficiency, and Aesthetics in Small Concrete Bridges, Arvid Grant, CE:May 67:66

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Elastic Shear Analysis of General Prismatic Beams, William E. Mason and Leonard R. Herrmann, EM4:Aug 68:965:6082

Equivalent Uniform Load for Beam Deflection, Santokh Saghera, CE:Sept 68:47

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Finite Difference Accuracy in Structural Analysis, Nancy Jane Cyrus and Robert E. Fulton, ST6:Dec 66:459:5023

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Inelastic Beams Under Moment Gradient, Maxwell G. Lay and Theodore V. Galambos, ST1:Feb 67:381:5110

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Inelastic Deflections of Beams, Alexander Chajes, ST6:June 68:1549:6012

Inelastic Response of Beams to Moving Loads, Teokistos G. Toridis and Robert K. Wen, EM6: Dec 66:43:5028

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Lateral Stability of Welded Light Trusses, John A. Hribar and William P. Laughlin, ST3:Mar 68:809:5873

Layered Beam Systems with Interlayer Slip, James R. Goodman and Egor Paul Popov, ST11: Nov 68:2535:6214

Limit Analysis of Continuous Prestressed Beams, Archibald N. Sherbourne and Hosagrahar C. Parameswar, ST1:Jan 68:19:5709

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On The Accuracy of Timoshenko's Beam Theory, G. Richard Cowper, EM6:Dec 68:1447: 6285

Optimal Structure Design by Dynamic Programming, Andrew C. Palmer, ST8:Aug 68: 1887:6057

Optimum Design of Beams for Sudden Loading, Raymond M. Brach, EM6:Dec 68:1395:6272

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Ponding of Rainwater on Flexible Roof Systems, Donald A. Sawyer, ST1:Feb 67:127:5094

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Shear Buckling of Unstiffened Hybrid Beams, Phillip S. Carskaddan, ST8:Aug 68:1965:6077

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Ultimate Strength of Beams with Rectangular Holes, John E. Bower, ST6:June 68:1315:5982

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Workmanship, materials and bridge-deck deterioration aspects of a report from the 47th annual meeting of the Highway Research Board in Washington, D.C., CE:Mar 68:96

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Rational 'Rational' Method of Storm Drainage Design, Richard A. Rogers, IR4:Dec 68:465:6301

Recent Approaches for Trickling Filter Design, John M. Baker and Quintin B. Graves, SA1:Feb 68:65:5798

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Steady State Vibration of Damped Timoshenko Beams, Alan M. Ebner and David P. Billington, ST3:Mar 68:737:5861

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Tabular Decision Logic for Structural Design, Steven J. Fenves, ST6:Dec 66:473:5024

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Theoretical Analysis of Suspension Bridges, Saafan A. Saafan, ST4:Aug 66:1:4885

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Vibration of Conical Shells Subjected to Torsion, Victor I. Weingarten, EM1:Feb 68:47:5783

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Yield Line Analysis of Folded Plate Structures, M.N. Fialkow, ST12:Dec 68:2935:6306

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Asphaltic Concrete Facing for a Rockfill Dam, Donald P. Proudfit, CE:Mar 68:58

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Engineering Close-up of HemisFair, R.E. Portik, CE:Apr 68:80

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How the California Water Project Endeavors to Get Uniformly Excellent Concrete, Lewis H. Tuthill, CE:July 67:40

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L'Enfant Plaza: Structure Does Double Duty as Air Distribution System, E. Pisetznier, CE:Dec 68:35

Maintenance Practices for Rigid Pavement, Report of Subcommittee on Maintenance of the Committee on Airfield Pavement, Aero-Space Transport Division, ASCE, Walter C. Oram, Chmn., AT1:Nov 68:57:6253

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Restoring Salt-Damaged Highway Bridges, Robert J. Walsh, CE:May 67:57

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Staggered Wall Beams for Multistory Buildings, Mark Fintel, CE:Aug 68:56

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Sulphur-Aggregate Concrete, John M. Dale and Allen C. Ludwig, CE:Dec 67:66

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New Medical Building Uses Precast Concrete, Frank Porter and Elmo Marker, CE:July 67:54

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Precast Boxes Stacked to Build Hotel for HemisFair, Roy W. Gillette, CE:Mar 68:44

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A Prestressed, Lightweight Concrete Bridge Spans 131 Ft, George Laszlo, CE:Apr 67:64

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Durability of prestressed concrete structures to be studied, CE:July 68:70

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Launcher Erects Post-Tensioned Girders in Bolivia, Paul Stergiou, CE:Aug 67:66

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Limit Analysis of Continuous Prestressed Beams, Archibald N. Sherbourne and Hosagrah C. Parameswar, ST1:Jan 68:19:5709

Post-Tensioned Slabs for Long-Span Floors, Keith Thornton, CE:Apr 68:75

Precast, post-tensioned building for Gulf Life Insurance Co., Jacksonville, Fla., CE:Mar 68:98

Prestressed Concrete Transmission Line Structures, Fred Ruckhaus, PO1:May 68:25:5934

Prestressed Pipe for Power Site in New Zealand, Robert H. Weight, A. Max Jensen, and A.M. McConnell, PO2:Nov 68:143:6229

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Seismic Resistance of Prestressed Concrete
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Stability of Tensile Cracks in Concrete Beams,
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Structural Tests on a Composite Floor System,
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Suspension Bridge Approaches on the Orinoco,
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Behavior of Reinforced Concrete Under Repeated Load,
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Behavior of Splices in Beam-Column Connections,
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Behavior of Square Tanks on Elastic Foundations,
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Corrosion laboratory tests concrete spalling,
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Design Charts for Reinforced Concrete Beams in Metric Units,
Yin Au-Yeung, CE:May 68:56

Floating V/STOL Airport Proposed, Edward G. Nawy and Cooper B. Bright, CE:July 67:45

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Limit Design by Successive Moment Distribution,
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Longitudinally Restrained Reinforced Concrete Beams,
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Mechanisms of Shear Resistance of Concrete Beams,
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Plastic Hinging in Reinforced Concrete, Ned H. Burns and Chester P. Siess, ST5:Oct 66:45;4931

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Reinforced Concrete Rectangular Columns in Torsion,
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Review of Concrete Beams Failing in Shear,
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Rotational Capacity of Reinforced Concrete Beams,
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Steel and Corrosion--Some Methods of Protection,
Ronald A. Antonio, CE:Feb 67:32

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Ultimate Torque of Reinforced Rectangular Beams,
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CONDUITS (Water)

Cement Mortar Lining of Large Diameter Water Pipelines,
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Dispersion Conduits, Thomas R. Camp and S. David Graber, SA1:Feb 68:31;5781

Distribution of Head at a Rectangular Conduit Outlet,
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Hydraulic Efficiency in Culvert Design, Fred W. Blaisdell, HW1:Mar 66:11;4709

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Plastic Design of Flexible Conduits, James M. Doyle and Shih-Lung Chu, ST8:Aug 68:1935;6070

Progress Report--ASCE Combined Sewer Separation Project,
M.B. McPherson, CE:Dec 67:60

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Secondary Currents in a Corner, James A. Liggett, Chao-Lin Chiu, and Ling S. Miao, HY6:Nov 65:99;4538

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CONFERENCES

1968 convention of American Congress on Surveying and Mapping and American Society of Photogrammetry,
Washington, D.C., March, CE:May 68:74

66th Annual Convention of the American Road Builders' Association,
Las Vegas, Nev., Feb. 11-14, CE:Apr 68:100

7th Annual Construction Safety Conference,
CE:Dec 68:89

88th Annual Meeting of the American Water Works Association,
Cleveland, June; discusses costs, CE:July 68:68

American Association for the Advancement of Science meeting features transportation seminar,
New York, CE:Feb 68:86

American Institute of Steel Construction 20th Annual Conference,
Washington, D.C., CE:June 68:84

American Society for Testing and Materials sponsors symposium on deep foundations,
San Francisco, June, CE:Aug 68:101

American Society of agricultural engineers meets,
CE:Aug 68:98

Architect-Engineer Conference on "Facing the Union Problem,"
CE:Jan 68:74

ASCE and AIME to co-sponsor tunneling conference,
Univ. of Minnesota, May 15-17, CE:Apr 68:71

ASCE and Engineering Institute of Canada sponsor Great Lakes Conference,
June 24-26, 1968, CE:Apr 67:76; CE:Nov 67:79, report CE:Aug 68:52

Dsc: William P. Rafferty, CE:Nov 68:58

ASCE co-sponsors 12th Annual Joint Power Generation Conference,
San Francisco, Sept. 15-19, CE:July 68:60

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- ASCE co-sponsors 16th Joint Engineering Management Conference, Philadelphia, Sept. 30-Oct. 1, CE:July 68:61
- ASCE co-sponsors 1968 National Incinerator Conference, New York City, CE:July 68:45
- ASCE Irrigation & Drainage Div. co-sponsor Symposium on Seepage, Phoenix, March 25-26, CE:Feb 68:78
- ASCE Pipeline Div. co-sponsor of International Symposium on Two-Phase Flow in Pipes, Philadelphia, March 4-6, CE:Feb 68:81
- Associated General Contractors 49th Annual Conference, Dallas, Tex., CE:May 68:76
- Column Research Council, annual technical session, San Francisco, May 23 and 24, CE:Apr 68:96
- Commission on Irrigation, Drainage and Flood Control Conference, Phoenix, March 28-29, CE:Feb 68:78
- Conference on Interprofessional Practice in Environmental Design, Univ. of Maryland, Nov. 1967, CE:Jan 68:56
- Consulting Engineers Council studies liability insurance at N.Y.C. meeting, CE:June 68:75
- Engineering Foundation Conference on performance of full-scale structures, Aug., Andover, N.H., CE:Oct 68:79
- Engineering Foundation plans 16 summer research conferences, CE:Mar 68:78
- Engineering-Mechanics and Structural Divisions sponsor conference "Optimization and Non-linear Problems, Chicago, April 18-20, CE:Feb 68:82
- Federal Water Pollution Control Administration and Vanderbilt Univ. co-sponsor Symposia on Thermal Pollution in 1968, CE:May 68:79
- Highway Research Board conference features painting structures, predicting accidents, rail and transit, January, Washington, D.C., CE:Feb 68:88
- International Conference on Masonry Structures, Austin, Tex., Nov. 30-Dec. 2, 1967, CE:Feb 68:91
- International Forum for air cargo, San Francisco, June 10-12, CE:May 68:49
- Interprofessional Conference on Education for Environmental Design, November, University of Notre Dame, CE:Sept 68:76
- Is engineering obsolete? Theme of January meeting of New York Academy of Sciences, CE:Mar 68:77
- Los Angeles Section co-sponsors Western Water and Power Symposium, April 8 and 9, CE:Feb 68:61
- MECAR symposium, New York, Oct., on air pollution control, CE:Sept 68:73
- Metropolitan and Philadelphia Sections plan seminar on planning and urban development, Rutgers Univ., Jan. 18-20, CE:Jan 68:78
- Metropolitan Sections offers seminar on Rock Mechanics in Civil Engineering Practice, CE:Mar 68:78
- National meeting, of Air Pollution Control Association, held in St. Paul, June, CE:Oct 68:85
- Pan American Federation of Engineering Societies (UPADI) holds tenth convention in Panama City in August, CE:Oct 68:81

- Sacramento section sponsors education seminars on computers, CE:May 68:51
- San Francisco Local Section co-sponsors seminar on Design of Earthquake-Resistant High-Rise Buildings, CE:Jan 68:77
- San Francisco Section sponsors second annual Engineering for People Conference, CE:Dec 68:79
- Sanitary and Water Resources Conference, Nashville, Tenn., June 5-6, CE:Dec 68:92
- SESA spring meeting, Philadelphia, May 13-16, papers wanted, CE:Sept 68:73
- Specialty Research Conference on Power Research Needs Pullman, Wash., September 11-13, CE:Aug 68:89
- Third International Conference on Urban Transportation, Pittsburgh, Pa., March, CE:May 68:77
- Urban Hydrology Research Conference, "Water and Metropolitan Man," August 12-16, Andover, N.H., CE:Oct 68:83
- Workmanship, materials and bridge-deck deterioration aspects of a report from the 47th annual meeting of the Highway Research Board in Washington, D.C., CE:Mar 68:96

CONSERVATION

- Freeway and Rapid Transit Share Corridor, H.L. Payne and W.W. Russell and W.A. Pacheco, CE:May 68:38
- Is There an East-West Water Conflict?, Floyd E. Dominy, SA4:Aug 67:41:5369
- TR:133:499
- President Johnson's conservation message, CE:Apr 68:106

CONSOLIDATION

- Analysis of Consolidation by Rate Process Theory, T.H. Wu, D. Resendiz, and R.J. Neukirchner, SM6:Nov 66:229:4991
- TR:133:580
- The Behavior of Foundations During Construction, William T. Lambe, SM1:Jan 68:93:5740
- Consolidation of Slightly Overconsolidated Soils, Gerald Patrick Raymond, SM5:Sept 66:1:4893
- TR:133:124
- Dynamic Strength of Anisotropically Consolidated Sand, Kenneth L. Lee and H. Bolton Seed, SM5:Sept 67:169:5451
- TR:133:492
- Influence of Temperature Variations on Soil Behavior, Richard G. Campanella and James K. Mitchell, SM3:May 68:709:5958
- Stability of Atchafalaya Levees, Robert I. Kaufman and Frank J. Weaver, SM4:July 67:157:5312
- TR:133:235
- Subsoils and Foundation Design in Richmond, Va., Leo Casagrande, SM5:Sept 66:109:4915
- TR:133:70
- Temperature Effects on Clay Soil Consolidation, Robert E. Paaswell, SM3:May 67:9:5225
- TR:133:150
- Willard Dam--Behavior of a Compressible Foundation, SM4:July 67:177:5313
- TR:133:220

CONSTRUCTION

- 7th Annual Construction Safety Conference, CE:Dec 68:89
- Aluminum Orthotropic Bridge Deck in Pittsburgh, W.M. Rogerson, et al. CE:Nov 67:65
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- Anticipated Foundation Movement Affects Design, George Evans, CO2:Sept 67:23:5441
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- Arctic Construction Problems and Techniques, Neil T. Monney, Millard M. Hill, A. Oien, S.J. Rowland, and F.L. Vail, CO1:Jan 68:89:5760
- Asphalt Paving for a New Airport in Alabama, Reginald Kerlin, CE:Nov 67:46
TR:133:599
- Associated schools of construction meet, CE:Aug 68:99
- BART's Structural Design, Thomas R. Kuesel, CE:Apr 68:46
- Bidding--Work Loading Game, Paul E. Torgeresen, Richard M. Wyskida, and Leonard S. Yarbrough, CO2:Oct 68:127:6141
- Cement-Treated Subbase Practice in U.S. and Canada, Edward L. Kawala, HW2:Oct 66:75:4947
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- Computer Design of 100-Story John Hancock Center, Fazlur R. Khan, Srinivasa H. Iyengar, and Joseph P. Colaco, ST6:Dec 66:55:5003
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- Construction and management research grants available from Engineering Foundation, CE:Jan 68:77
- Construction Control With Lasers, Donald Bengton, CE:Apr 68:72
- Construction Engineering and Management Conference planned, Pacific Grove, Calif., Feb. 12-16, CE:Dec 68:46
- Construction of Morrow Point Power Plant and Dam, James D. Seery, CO1:Mar 67:47:5154
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- Construction Personnel Management, Henry J. Nave, Jr., CO1:Jan 68:95:5765
- Construction Pore Pressures in Three Earth Dams, Chung Yuan Li, SM2:Mar 67:1:5122
TR:133:501
- Construction Practice for Hot-Mix Bituminous Pavements, Report of the Subcommittee on Construction of the ASCE Committee on Airfield Pavements, Aero-Space Transport Division, ASCE, Henry Aaron, Chmn., AT1:Nov 68:31:6251
- Construction Surveys for Merced River Project, Arthur R. Reitter and Robert N. Janopaul, SU2:Sept 68:203:6104
- Cost of Concrete Industrial Buildings, John J. Cherry, CE:Jan 68:42
- Critical Path Resource Scheduling Algorithm, F. Lawrence Bennett, CO2:Oct 68:161:6152
- Dynamic Programming for Project Cost-Time Curves, William S. Butcher, CO1:Mar 67:59:5158
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- Eight-Berth Marine Terminal in Deep Bay Mud, Eugene L. Sembler, WW3:Aug 67:23:5366
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- Engineered Structures at Expo 67, Hal W. Hunt, CE:Mar 67:40
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- Foundations for Newport Bridge, Louis G. Silano and Alfred Hedefine, CE:Oct 68:37
- Ground Freezing in Construction, Frederick J. Sanger, SM1:Jan 68:131:5743
- Grouting a Dam Cutoff in Cavernous Limestone, Leland F. Grant and John S. Winefordner, CO3:Sept 66:1:4894
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- Harvard Gulch Flood Control Project, Kenneth R. Wright, IR1:Mar 67:15:5132
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- Homestake Collection System: Intakes and Conduits, H.C. Cox, W.H. Blair, and R.L. Perley, PL2:July 67:51:5349
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- Launcher Erects Post-Tensioned Girders in Bolivia, Paul Stergiou, CE:Aug 67:66
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- Madison Square Garden--Fabrication and Erection of Cable-Supported Roof, J.A. Sterner, CE:Oct 67:43
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- Materials Control and Test Procedures, Robert F. Baker, CO3:Sept 66:17:4896
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- Morrow Point Dam Completed, B.P. Bellport, CE:Dec 68:48
- Navy Anniversary--CEC and the Seabees, CE:Mar 67:35
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- Newark Airport Redevelopment Program, John P. Veerling, AT1:Nov 68:19:6244
- Optimal Construction Staging by Dynamic Programming, Monroe L. Funk and Frank A. Tillman, HW2:Nov 68:255:6215
- Optimizing Haul Fleet Size Using Queueing Theory, Fletcher H. Griffiths, CO1:Jan 68:75:5753
- Optimum Life of Equipment for Maximum Profit, James Douglas, CO1:Jan 68:41:5745
- Outline of Research Requirements for Construction, Report by the Committee on Research, W.F. Burkart, Chmn. Journal of the Construction Division, ASCE, CO2:Oct 68:233:6189
- Planning and Construction of an Ellipsoidal Dome, Joseph F. West, CO2:Oct 68:113:6129
- Pole Buildings Go Modern, W.A. Norum, ST2:Apr 67:47:5169
TR:133:635
- Property Development in Modern Communities, Daniel B. Stauffer, CO1:Jan 68:35:5741
- The Rheology of Fresh Concrete, Alistair G.B. Ritchie, CO1:Jan 68:55:5752
- Rockfill Design--Carters Dam, Fred A. Robeson and Robert L. Crisp, Jr., CO3:Sept 66:51:4906
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- Siting of Manned Lunar Launch Facilities, Arthur G. Porcher, AT1:Jan 66:145:4630
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- Soil-Cement Pipe Bedding, Canadian River Aqueduct, Clemith A. Lowitz and Glenn DeGroot, CO1:Jan 68:17:5723
- Statistical Quality Control in Highway Construction, John L. Beaton, CO1:Jan 68:1:5708
- Structural Design of the Bay Area Rapid Transit System, Thomas R. Kuesel, CE:Apr 68:46

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Symposium on wearing surfaces part of International Association for Bridge and Structural Engineering Congress, Sept. 7, Columbia Univ., CE:Mar 68:67

Transporting Equipment for Grand Coulee Third Plant, Harold G. Arthur, PO2:Nov 68:125:6226

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- Symposium on structural plastics, June 13-14, 1968, Univ. of Va.; papers solicited, CE:Aug 67:87; conference cancelled, CE:Feb 68:83
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Laminar Flow in Finitely Wide Rectangular Channels, Jack L. Woerner, Benjamin A. Jones, Jr., and Richard N. Fenzl, HY3:May 68:691:5938

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L'Enfant Plaza: Structure Does Double Duty as Air Distribution System, E. Pisetzner, CE:Dec 68:35

VERRAZANO-NARROWS BRIDGE

Verrazano-Narrows Bridge: Construction of Tower Foundations and Anchorages, Nomer Gray and George H. Decanq, CO2:Mar 66:95:4744

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Verrazano-Narrows Bridge: Development and Financing Project, Peter J. Reidy, CO2:Mar 66:1:4740

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Optimum Curvature Principle in Highway Routing, Bernard E. Howard, Z. Bramnick, and Jocelyn F.B. Shaw, HW1:June 68:61:5987

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Viability of Long-Stored Airborne Bacterial Aerosols, Calvin P.C. Poon, SA6:Dec 68:1137:6299

VIBRATION

Controlled Blasting Near Nuclear Reactor, Richard Zenoble, CE:Jan 68:68
 Cyclic Stress-Strain Characteristics of Clay, Gerald R. Thiers and H. Bolton Seed, SM2:Mar 68:555:5871

Dynamic Analysis of Rings by Finite Differences, Robert E. Ball, EM1:Feb 67:1:5082
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Dynamic Characteristics of Multistory Buildings, John A. Blume, ST2:Feb 68:377:5787
 Dynamic Response of a Horizontally Curved Bridge, Chen Pang Tan and Sidney Shore, ST3:Mar 68:761:5862

Dynamic Response of a Restrained Sphere, Allen T. Hjelmfelt, John F. Carney, III, Lyle F. Mockros, and Seng-Lip Lee, EM1:Feb 67:41:5107

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 Dynamics of Submerged Reinforced Cylindrical Shells, William C. Lyons, James E. Russell, and George Herrmann, EM2:Apr 68:397:5880

Dynamics of Tier Buildings, William Weaver, Jr., Mark F. Nelson, and Thomas A. Manning, EM6:Dec 68:1455:6293

Earthquake Behavior of Reservoir-Dam Systems, Anil K. Chopra, EM6:Dec 68:1475:6297

Effects of Blasting Vibrations on Buildings and People, John F. Wiss, CE:July 68:46

Flexibility in Cylinder Groups Oscillated in Water, Alan D. K. Laird, WW3:Aug 66:68:4884
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Full-Scale Structural Testing and the New York World's Fair, Jack R. Janney, CE:Dec 68:52
 Gust Response Factors, Joseph Vellozzi and Edward Cohen, ST6:June 68:1295:5980

How the California Water Project Endeavors to Get Uniformly Excellent Concrete, Lewis H. Tuthill, CE:July 67:40

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 Lateral Vibrations of Plane Curved Bars, Muppidi N. Reddy, ST10:Oct 68:2197:6148

Nonlinear Parameters of Vibrating Foundations, O. M. Christof Ehrler, SM6:Nov 68:1199:6208

On The Accuracy of Timoshenko's Beam Theory, G. Richard Cowper, EM6:Dec 68:1447:6285

Optimum Design of Beams for Sudden Loading, Raymond M. Brach, EM6:Dec 68:1395:6272

Response of a Finite Tube to Moving Pressure, Sing-Chih Tang, EM3:June 67:239:5301

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 Response of Multi-Degree-of-Freedom Yielding Systems, Wilfred D. Iwan, EM2:Apr 68:421:5883

Screening of Surface Waves in Soils, Richard D. Woods, SM4:July 68:951:6031

Seismic Response of Structure-Foundations Systems, Richard A. Parmelee, David S. Perelman, Seng-Lip Lee, and Leon M. Keer, EM6:Dec 68:1295:6264

Seismic Response of Single-Story Interaction Systems, David S. Perelman, Richard A. Parmelee, and Seng-Lip Lee, ST11:Nov 68:2597:6235

Simulation of Nonstationary Random Process, Masanobu Shinokawa and Y. Sato, EM1:Feb 67:11:5105

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Steady State Vibration of Damped Timoshenko Beams, Alan M. Ebner and David P. Billington, ST3:Mar 68:737:5861

Upper and Lower Frequencies of Tapered Beams, J. H. Gaines and Enrico Volterra, EM2:Apr 68:465:5887

Vibration Frequencies of the Chesapeake Bay Bridge, A. Hughlett Mason and Dean S. Carder, ST2:Apr 67:237:5194

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 Vibration Modulus of Normally Consolidated Clay, Bobby O. Hardin and William L. Black, SM2:Mar 68:353:5833

Vibration of Cantilevered Right Triangular Plates, Dallas R. Koerner and Robert R. Snell, ST5:Oct 67:561:5539

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 Vibration of Conical Shells Subjected to Torsion, Victor I. Weingarten, EM1:Feb 68:47:5783

Vibration of Nonuniform Simply-Supported Beams, Arthur C. Heidebrecht, EM2:Apr 67:1:5163

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 Wind and Movement in Tall Buildings, Fu-kuei Chang, CE:Aug 67:70

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Shock Spectra from Subsurface Nuclear Explosions, Frank W. Galbraith and Robert N. Schreiner, EM5:Oct 68:1015:6140

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Viscoelastic Properties of Snow and Sand, Yong Suk Chae, EM6:Dec 68:1379:6269

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 Experimental Study of Two-Layered Flow Through a Sink, D. Grant Huber and T. L. Reid, HY1:Jan 66:31:4618

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 The Rheology of Fresh Concrete, Alistair G. B. Ritchie, CO1:Jan 68:55:5752
 Slow Non-Newtonian Flow in Zone of Separation, Arthur A. Giaquinta and Tin-Kan Hung, EM6:Dec 68:1521:6319

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 Sheet-Pile Analysis by Distribution Theory, Dafalla A. Turabi and Arpad Balla, SM1:Jan 68:291:5769

Staggered Wall Beams for Multistory Buildings, Mark Fintel, CE:Aug 68:56

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- Deep-well Disposal of Wastes, William R. Walker and Ronald C. Stewart, SA5:Oct 68:945; 6171
 Dispersion Predictions in Natural Streams, Hugo B. Fisher, SA5:Oct 68:927:6169
 Eutrophication--The New Pollution, Gilbert V. Levin, CE:May 67:58
 TR:133:433

- Fundamentals of Water Pollution Control, William H. Wisely, CE:Oct 67:33
 Dsc, W.A. Hardenbergh, CE:Jan 68:55; J.B. Lampert, CE:Jan 68:55; Lisa F. Sirjane, CE:Jan 68:55; Walter R. Lynn, CE:Jan 68:55
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- Getting More for the Water-Pollution Control Dollar, Richard Hazen, CE:Dec 67:38
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 Mixing and Dispersion Studies in San Francisco Bay, Thomas E. Bailey, Charles A. McCullough, and Charles G. Gunnerson, SA5:Oct 68:23:4936
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- Program for Water-Pollution Control in Maryland, Andrew Heubeck, Jr., James B. Coulter, Paul W. McKee, James J. O'Donnell, and Donald W. Pritchard, SA2:Apr 68:283:5900
 Property Development in Modern Communities, Daniel B. Stauffer, CO1:Jan 68:35:5741
 Reuse of Municipal Waste Water, A. Amramy, CE:May 68:58

- Ridge and Furrow Liquid Waste Disposal in a Northern Latitude, Thomas W. Bendixen, R.D. Hill, W.A. Schwartz, and Gordon G. Robeck, SA1:Feb 68:147:5819

- The Ruhr and the Delaware, Allen V. Kneese, SA5:Oct 68:83:4950
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- Scope of the Solid Waste Problem, Wesley E. Gilbertson, SA3:Jun 66:1:4833
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- A Synergistic Approach to Phosphorous Removal, Robert J. Sherwood, CE:May 68:32
 Underflow Sewers for Chicago, Milton Pikarsky and Clint J. Kelfer, CE:May 67:62
 TR:133:430

- Wastes from the Preservation of Wood, E. Joe Middlebrooks, SA1:Feb 68:41:5785

- Water Needs in 1999, Vance C. Lischer, UP1:Jan 67:13:5061
 TR:133:598

- Water Supply and Waste Disposal in Alaska Native Communities, K.C. Lauster, CE:Apr 67:66
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- Foundation Problems in Sanitary Land Fills, George F. Sowers, SA1:Feb 68:103:5811
 New method for treating acid mine waste, CE:Dec 68:91
 Plant to demineralize acid-mine wastes in Pennsylvania, CE:Apr 68:107
 Regional Plan Association studies management of wastes, CE:June 68:87
 Report on the Solid Waste Problem, Harvey F. Ludwig and Ralph J. Black, SA2:Apr 68:355:5909

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- Japan--U.S. Trade Mission sees market for waste treatment equipment, CE:Feb 68:89
 New Approaches to Wastewater Treatment, Robert L. Stenborg, John J. Convery, and Charles L. Swanson, SA6:Dec 68:1121:6296

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- Joint Committee on Revenue Requirements for Wastewater Systems to prepare new report, CE:Sept 68:75

- Wastewater Recharge and Dispersion in Porous Media, John A. Hoopes and Donald R. F. Harleman, HY5:Sept 67:51:5425
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- 88th Annual Meeting of the American Water Works Association, Cleveland, June; discusses costs; CE:July 68:68

- The Central Arizona Project, CE:Dec 68:92
 Distribution System Equalizing Storage Hydraulics, M.B. McPherson and R. Prasad, HY6:Nov 66:151:4987
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- European Practice in Water Quality Control, Walter A. Lyon, SA3:June 67:37:5284
 TR:133:227

- Federal Versus State Interests in Water Development, Harvey O. Banks, IR1:Mar 65:31:4246
 TR:133:683

- Free Surface Shear Flow Over a Wavy Bed, Yoshiaki Iwasa and John F. Kennedy, HY2:Mar 68:431:5856

- International Hydrological Decade Program Abroad, Raymond L. Nace, HY4:July 66:33:4864
 TR:133:187

- Los Angeles Section co-sponsors Western Water and Power Symposium, April 8 and 9, CE:Feb 68:61

- Management: A Key to Irrigation Efficiency, Leonard J. Erie, IR3:Sept 68:285:6107

- Measurement of Turbulence in Water, Everett V. Richardson and Raul S. McQuivey, HY2:Mar 68:411:5855

- Mixing of Two Concentric Jets, D.C. Kotwal, Y.R. Reddy, and Subir Kar, HY2:Mar 68:505:5866

- Stable Alkanol Dispersion to Reduce Evaporation, Gary W. Frasier and Lloyd E. Myers, IR1:Mar 68:79:5849

- Three members appointed to Water Commission, CE:Nov 68:66

- Use of Atmometers in Estimating Evapotranspiration, John W. Shannon, IR3:Sept 68:309:6120

WATER ANALYSIS

- Mixing of Columbia River and Ocean Waters in Summer, T. John Conomas and M. Grant Gross, SA5:Oct 68:979:6187

WATER CONSERVATION

- Comprehensive River Basin Planning, Wallace R. Christensen, PL1:Oct 68:11:6136

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- Future Irrigation Demand in the Susquehanna Basin, Howard Miller, IR4:Dec 68:391:6278
 Operation Analysis of Colombian Water Treatment Plants, Lauro Arturo, SA4:Aug 68:707:6085

WATER CONSUMPTION Continued

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Water Needs in 1999, Vance C. Lischer, UP1:Jan 67:13;5061

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WATER DISTRIBUTION

Computer Controls for Aqueduct Operation, Alfred R. Golze, PL1:Oct 68:19;6145

Design of Optimal Water Distribution Networks, David Karmell, Y. Gadish, and S. Meyers, PL1:Oct 68:1;6130

Distribution of Energy Losses at Conduit Trefurcations, Bezzam C. Syamala Rao, Nagar S. Lakshmana, and Muthu S. Shivaswamy, HY6:Nov 68:1363;6207

Irrigating with Cut-Bank Furrow Streams, John G. Sakkas and William E. Hart, IR1:Mar 68:91;5852

Relationships Among Sprinkler Uniformity Measures, Jack G. Beale and David T. Howell, IR1:Mar 68:41;4720

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Transportation of Demineralized Water, Roy E. Dodson, PL1:Oct 68:127;6191

Water System Links Offshore Islands, William F. Bishop, CE:Nov 68:40

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Feasibility of Water Export, Edward Kuiper, HY4:July 68:873;6024

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Classification System for Estuaries, Bard Glennie, WW1:Feb 67:55;5084

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Computation of Discharge Including Over-Bank Flow, C.J. Posey, CE:Apr 67:62

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Determination of Unconfined Aquifer Characteristics, George J. Kriz, IR2:June 67:37;5269

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Effects of Water Temperature on Bed-Load Movement, John J. Franco, WW3:Aug 68:343;6083

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Experimental Study of Two-Layered Flow Through a Sink, D. Grant Huber and T.L. Reid, HY1:Jan 66:31;4618

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Flow Calibration by Dye-Dilution Measurement, F.A. Kilpatrick, CE:Feb 68:74

Flow Equation for the Sluice Gate, Nallamuthu Rajaratnam and K. Subramanya, IR3:Sept 67:167;5436

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Hydraulic Jumps Below Abrupt Symmetrical Expansions, Nallamuthu Rajaratnam and Kankatti Subramanya, HY2:Mar 68:481;5860

Hydro Machinery Laboratory, Maurice L. Albertson and J. Paul Tullis, CE:Dec 67:68

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Mathematical Flow Determination in Open Channels, James A. Liggett, EM4:Aug 68:947;6078

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Rating Side Contractions in Open Channels, Technical Note by Gaylord V. Skogerboe and M. Leon Hyatt, IR1:Mar 68:181;5829

Rationalization of Lacey's Regime Flow Equations, Mohammad Akram Gill, HY4:July 68:983;6039

Refraction of Water Waves, J.A. Battjes, WW4:Nov 68:437;6206

Secondary Currents in a Corner, James A. Liggett, Chao-Lin Chiu, and Ling S. Miao, HY6:Nov 65:99;4538

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Simple Tools in a World of Computers, Frederic T. Mavis, CE:Apr 67:58

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Wastewater Recharge and Dispersion in Porous Media, John A. Hoopes and Donald R.F. Harleman, HY5:Sept 67:51;5425

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Water Line Transmission of Control Information, Roy E. Ramseier, SA6:Dec 68:1213;6314

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Transient Elastic Waves in Fluid-Filled Cylinder, Wilton W. King and Daniel Frederick, EM5:Oct 68:1215;6188

Unsteady Flows in Lines with Distributed Leakage, David C. Wiggert, HY1:Jan 68:143;5733

Valve Stroking for Complex Piping Systems, Victor L. Streeter, HY3:May 67:81;5238

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Waterhammer Analysis by Analog Computers, Don J. Wood, HY1:Jan 67:1;5052

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Water-Hammer Charts Including Fluid Friction, David Stephenson, HY5:Sept 66:71;4908

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Water-Hammer Control in Centrifugal Pump Systems, Hitoshi Kinno, HY3:May 68:619;5927

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Economic Derivation of Reservoir Operating Rules, L. Douglas James, HY5:Sept 68:1217;6111

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Future Irrigation Demand in the Susquehanna Basin, Howard Miller, IR4:Dec 68:391;6278

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Incrustations in Water Pipelines, Monroe O. Moore, PL1:Oct 68:37;6161

Photoelastic Model Studies of Wye Manifold Branches, S. Redner and J.H. Perrotta, PL1:Oct 68:107;6180

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"Balas" Algorithm for Zoned Uniform Treatment, Jon C. Liebman and David H. Marks, SA4:Aug 68:585;6059

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The Battle to Save Lake Michigan, H.W.

Poston, CE:Dec 67:40

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Biological Effects of Spoil Disposal in Chesapeake Bay, David A. Flemer, W.L. Dovel, and H.T. Pfizenmeyer, and D.E. Ritchie, Jr., SA4:Aug 68:683;6081

Coliform-Fecal Coliform Bacteria in Tidal Waters, Gerald A. Strobil, SA4:Aug 68:641:6068
Conducting an Industrial Water Pollution Survey, William H. Merrill, Jr., CE:May 68:42
Deep-well Disposal of Wastes, William R. Walker and Ronald C. Stewart, SA5:Oct 68:945:6171

Delta-Suisun Bay Water Quality and Hydraulic Study, Charles A. McCullough and Jerry D. Vayder, SA5:Oct 68:809:6143

Design Sensitivity of Pollution Control, George K. Young, R.W. Schrecongost, and W.N. Fitch, SA5:Oct 68:829:6147

Difference Modeling of Stream Pollution, David A. Bella and William E. Dobbins, SA5:Oct 68:995:6192

Dispersion Predictions in Natural Streams, Hugo B. Fisher, SA5:Oct 68:927:6169

Effect of Drought on Stream Quality in New Jersey, Pater W. Anderson and John E. McCall, SA5:Oct 68:779:6138

Enteric Disease Criteria for Recreational Waters, John M. Henderson, SA6:Dec 68:1253:6320

Environmental Aspects of Thermal Station

Design, R.T. Richards, CE:May 68:45

Environmental Effects of Overboard Spoil Disposal, Robert B. Biggs, SA3:June 68:477:5979

Eutrophication--The New Pollution, Gilbert V. Levin, CE:May 67:68

TR:133:433

Evaluation of Nitrification in Streams, Chester T. Wezenak and John J. Gannon, SA5:Oct 68:883:6159

Federal grant to help restore Cleveland beaches, CE:June 68:85

Federal-state relationships discussed at WPCF meeting, CE:Nov 68:74

Federal Water Pollution Control Administration and Vanderbilt Univ. co-sponsor Symposiums on Thermal Pollution in 1968, CE:May 68:79

Functions of the International Joint Commission, Eugene W. Weber, PO2:Nov 68:177:6236

Fundamentals of Water Pollution Control,

William H. Wisely, CE:Oct 67:33

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Hydrology of Water Quality Dilution Requirements, Malcolm F. Kallus and Jack W. Keeley, SA5:Oct 68:7:4930

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Intertidal Communities as Monitors of Pollution, R.T. Oglesby and David Jamison, SA3:June 68:541:6008

Inventory of Combined Sewers, Richard H. Sullivan, CE:Nov 68:52

Joint Committee on Revenue Requirements for Wastewater Systems to prepare new report, CE: Sept 68:75

Legislation on Water Pollution in The Netherlands, Pieter G. Meerman, SA2:Apr 68:237:5893

Mathematical Model for Water Pollution Control Studies, Alvin S. Goodman and William E. Dobbins, SA6:Dec 66:1:5031

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Numerical Analysis of BOD and DO Profiles, Robert Dresneck and William E. Dobbins, SA5: Oct 68:789:6139

Numerical Studies of Unsteady Dispersion in Estuaries, Donald R.F. Harleman, Chok-Hung Lee, and Lawrence C. Hall, SA5:Oct 68:897:6160
Oceanography as an Aid to Engineering in Coastal Waters, Gino Mecarini, CE:Jan 67:80

TR:133:195

The Orsanco Story, CE:May 68:36

Plan to save Lake Erie, CE:Nov 68:76

Pollution program adopted for Lake Michigan, CE:May 68:78

Predicting DO Variations Caused by Algae,

Richard C. Bain, Jr., SA5:Oct 68:867:6155

Reservoir Analysis for Low Flow Control,

Technical Note by G.K. Young, Jr., and W.C.

Pisano, SA6:Dec 68:1305:6294

Sanitary Engineering Div. co-sponsor national symposium on estuarine pollution, Stanford Univ., Aug. 23-25, CE:Jan 67:86; CE:Apr 67:54; report, CE:Oct 67:84; proceedings available, CE:May 68:68

Sludge Disposal at Sea, CE:Aug 68:62

Statistical Approach to Estuarine Behavior,

T.A. Wastler and Carl M. Walter, SA6:Dec 68: 1175:6311

A Synergistic Approach to Phosphorus

Removal, Robert J. Sherwood, CE:May 68:32

Viral Pollution of Shellfish in Estuary Waters, T.G. Metcalf and W.C. Stiles, SA4:Aug 68:595: 6063

Water Pollution Control--Gearing Performance

to Promise, Edward J. Cleary, CE:Jan 68:62

Water Quality Management in Transition, Joe

G. Moore, Jr., CE:June 68:61

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Water Line Transmission of Control Information, Roy E. Ramseier, SA6:Dec 68:1213:6314

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Drilled-pier Cofferdam for a Building, Harold Engstrom and Robert Oates, CE:Apr 67:44

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Membrane Linings for Canal Construction,

M.E. Hickey and B.V. Jones, CE:Apr 68:51

Seepage Prevention with Impermeable Mem-

branes, Charles E. Staff, CE:Feb 67:44

TR:133:277

Tunnel Liners for BART Subways, W.W.

Wolcott and d. Birkmyer, CE:June 68:55

Dsc: Martin P. Korn, CE:Aug 68:73; Ben C.

Gerwick Jr., CE:Nov 68:31

Waterproofing a Tunnel under a Canal, Sami

Tibshirani, CE:July 67:37

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Ammonia Nitrogen Losses from Streams,

Frank E. Stratton, SA6:Dec 68:1085:6282

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- ASCE Irrigation & Drainage Div. co-sponsor Symposium on Seepage, Phoenix, March 25-26, CE:Feb 68:78
- "Balas" Algorithm for Zoned Uniform Treatment, Jon C. Liebman and David H. Marks, SA4:Aug 68:585:6059
- Chloride Control--Arkansas and Red River Basins, M.W. DeGeer and John C. Ball, SA1:Feb 68:117:5812
- Conceptual Problems in Water Quality Economics, Virgil Whiteley and Bill B. Dendy, SA5:Oct 68:841:6149
- Dustfall as a Source of Water Quality Impairment, Richard E. Johnsen, August T. Rossano, and Robert O. Sylvester, SA1:Feb 66:245:4694
- TR:133:723
- Enforcing Delaware Basin's water-quality standards, CE:Sept 68:81
- Environmental Aspects of Thermal Station Design, R.T. Richards, CE:May 68:45
- Erosion Control in Relation to Watershed Management, William R. Moore and C. Edwin Smith, IR3:Sept 68:321:6126
- Estuarine Water Quality Management, Richard L. Rosenberger and Raymond Walsh, SA5:Oct 68:913:6164
- Experience with Surface Water Quality Standards, I. Grossman, SA1:Feb 68:13:5778
- Getting More for the Water-Pollution Control Dollar, Richard Hazen, CE:Dec 67:38
- TR:133:722
- Hydraulics and Sanitary Engineering Divisions cosponsor research conference on reservoir effects, Jan. 21-24, Portland, Oreg., CE:Mar 68:66
- Hydrology of Water Quality Dilution Requirements, Malcolm F. Kallus and Jack W. Keeley, SA5:Oct 66:7:4930
- TR:133:214
- Impoundment Destratification by Mechanical Pumping, William H. Irwin, James M. Symons, and Gordon G. Robeck, SA6:Dec 66:21:5032
- TR:133:173
- Impoundment Water Quality Changes Caused by Mixing, James M. Symons, William H. Irwin, and Gordon G. Robeck, SA2:Apr 67:1:5205
- TR:133:79
- Is There an East-West Water Conflict?, Floyd E. Dominy, SA4:Aug 67:41:5369
- TR:133:499
- Operational Hydrology Using Residuals, G.K. Young and William C. Pisano, HY4:July 68:909:6034
- The Orsanco Story, CE:May 68:36
- Pumped Storage for Water Resources Development, Clarence J. Velz, James D. Calvert, Jr., Rolf A. Deininger, William L. Heilman, and John Z. Reynolds, SA1:Feb 68:159:5820
- Red Water in South Bend, Phillip Moses, CE:Mar 67:68
- TR:133:386
- Refuse Filling of a Swamp in a Fresh Water Lake, Walter L. Dunn, CE:Jan 68:60
- Reuse of Municipal Waste Water, A. Amramy, CE:May 68:58
- Risk Evaluation in Sewage Treatment Plant Design, Daniel P. Loucks, SA1:Feb 67:25:5109
- TR:133:183

The Ruhr and the Delaware, Allen V. Kneese, SA5:Oct 66:83:4950

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Water Pollution Control--Gearing Performance

to Promise, Edward J. Cleary, CE:Jan 68:62

Water Quality in Pumped Storage Reservoirs,

John Z. Reynolds, PO2:Oct 67:15:5498

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WATER RECLAMATION

Report on the Solid Waste Problem, Harvey F.

Ludwig and Ralph J. Black, SA2:Apr 68:355:5909

Reuse of Municipal Waste Water, A. Amramy,

CE:May 68:58

The Ruhr and the Delaware, Allen V. Kneese,

SA5:Oct 66:83:4950

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Water Needs in 1989, Vance C. Lischer, UP1:

Jan 67:13:5061

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WATER RESEARCH

ASCE Hydraulics Division's 16th Annual Speciality Conference, Cambridge, Mass., August

21-23, 1968, CE:July 68:44

WATER RESOURCES

ASCE and Engineering Institute of Canada

sponsor Great Lakes Conference, June 24-26,

1968, CE:Apr 67:76; CE:Nov 67:79, report, CE:

Aug 68:52

Dac:William P. Rafferty, CE:Nov 68:58

ASCE National Meeting on Water Resources,

New Orleans, La., Feb. 3-7, program, CE:

Dec 68:66

ASCE research program in urban water

resources, CE:May 68:70

Beginning of Quantitative Hydrology, Asit K.

Biswas, HY5:Sept 68:1299:6123

Bio-Engineering--Now and in the Future,

William M. Striplin, Jr., CE:July 68:49

Central America plans hydrometeorological

project to evaluate water resources, CE:Feb

68:91

Competition for Recreation Water in California,

Amelio Gomez and Dale A. Crane, IR3:Sept 68:

295:6109

Comprehensive River Basin Planning, Wallace

R. Christensen, PL1:Oct 68:11:6136

Comprehensive River Stabilization, Walter C.

Carey, WW1:Feb 66:59:4672

TR:133:645

Deep-well Disposal of Wastes, William R.

Walker and Ronald C. Stewart, SA5:Oct 68:945:

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The East-West Water Controversy: Both Sides

Are Partly Right, Ray K. Linsley, SA4:Aug 67:

49:5370

TR:133:604

Economic Planning for Staged Development,

Kenneth E. Sorensen and Robert D. Jackson,

HY5:Sept 68:1231:6114

Economics of Ground-Water Recharge, David

K. Todd, HY4:July 65:249:4418

TR:133:695

Effect of Drought on Stream Quality in New

Jersey, Peter W. Anderson and John E. McCall,

SA5:Oct 68:779:6138

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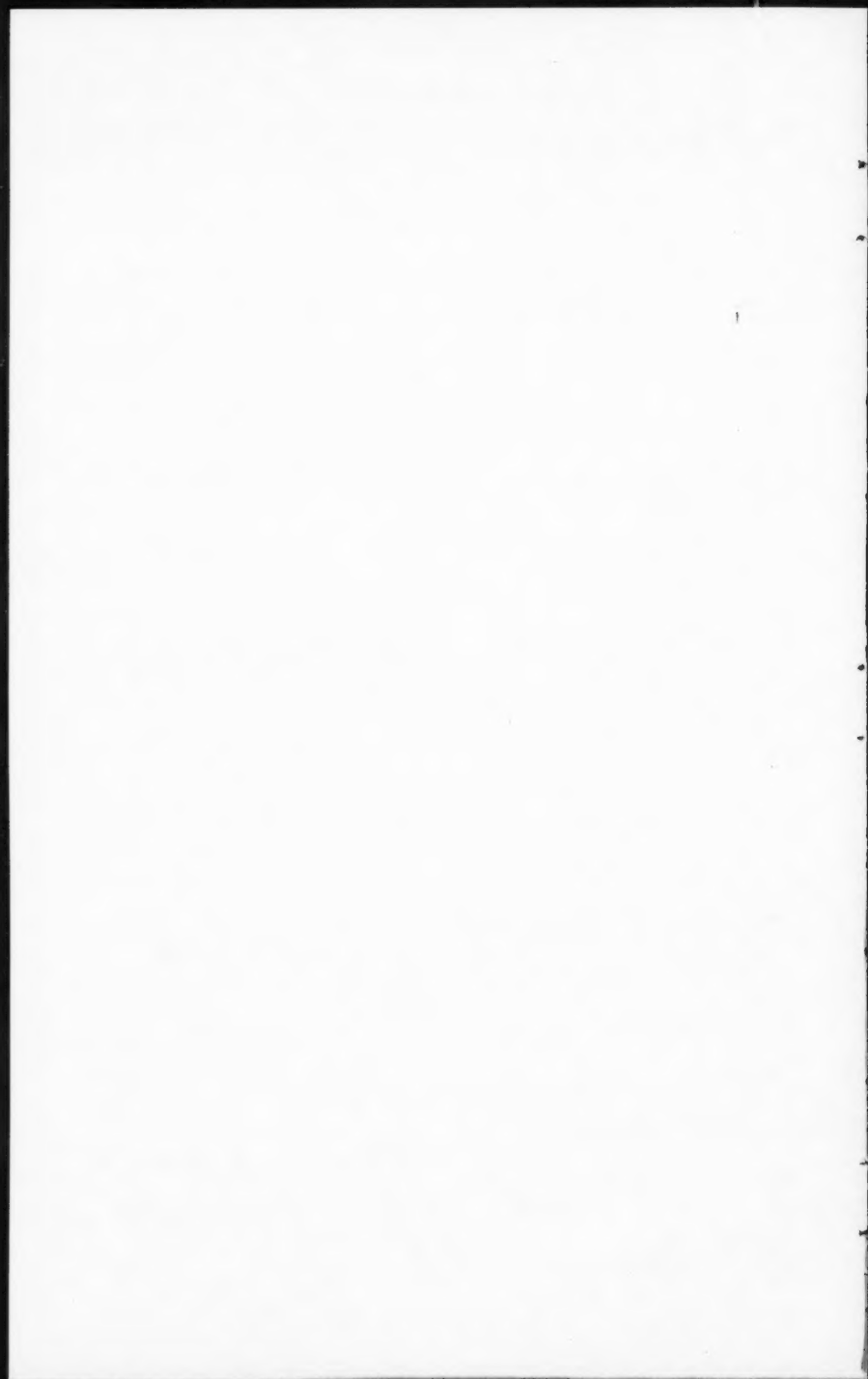
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